

California Integrated Water Quality System (CIWQS) and Electronic Self Monitoring Reports (eSMR)

Presentation to California
Dischargers

What is CIWQS?

The California Integrated Water Quality System (CIWQS) is a new computer system for the State and Regional Water Boards to track information about places of environmental interest, manage permits and other orders, track compliance inspections, and manage violations and enforcement activities.

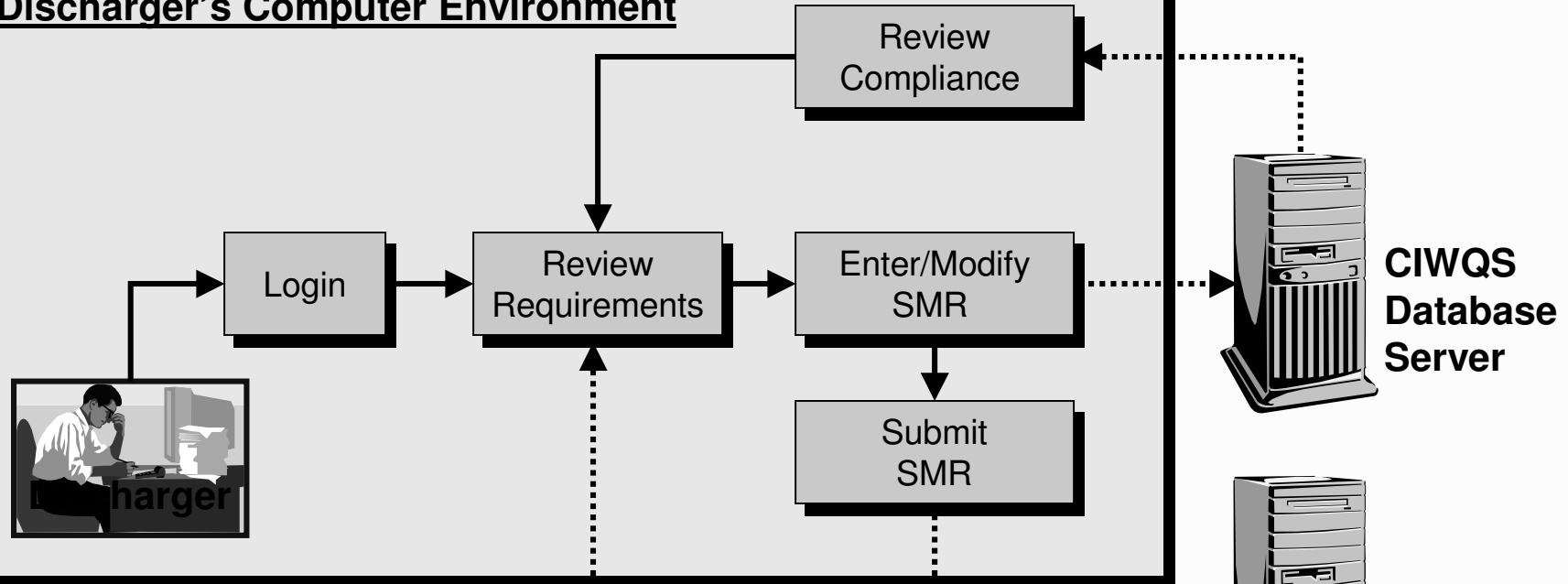
What is CIWQS?

- Web access to:
 - Locations (facilities) of interest
 - Associated people and organizations
 - Orders (e.g., permits), including requirements and limits
 - Inspection scheduling and results tracking
 - Violation management
 - Enforcement Action development and tracking
 - Penalties and invoices
- Allows Dischargers to electronically submit *self monitoring reports*
- Share data with the State financial system (AFBS) and USEPA IDEF/PCS
- Desktop-based and Web-Based GIS module
- Integrates functionality of existing SWRCB systems and adds new functionality
- Dischargers will initially have access to only eSMR module

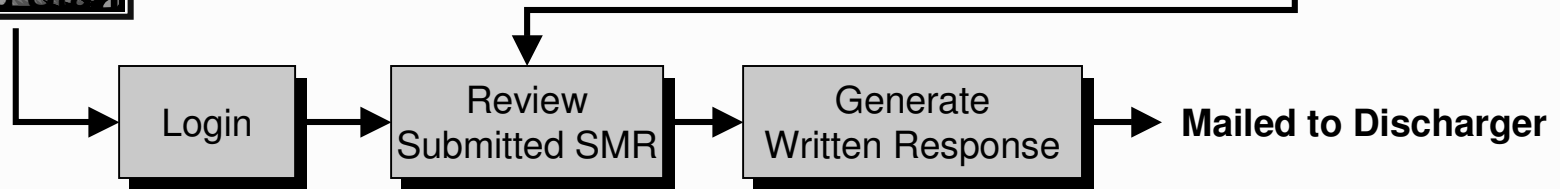
CIWQS Help Center

- SWRCB has created the CIWQS Help Center
 - Web Site
 - Phone Support
 - Outreach Materials and Training
- <http://www.waterboards.ca.gov/ciwqs>
- 1-866-79-CIWQS (M-F, 8am-5pm)
- Help Center is also Processing DMR's
- List Server available at -
http://www.waterboards.ca.gov/lyrisforms/swrcb_subscribe.html.

Discharger's Computer Environment



Water Board's Computer Environment



Benefits of CIWQS

- Reduced Error Rates
- Reduced Processing Time
- Potential Cost Savings
- Potential Positive Environmental Impact
- Future Integration with Permit Development
- Access to Historical Data and Data Compilation

What is eSMR?

- Electronically submit self monitoring reports (SMR)
- Based on permit requirements loaded into CIWQS
- Provides an “error check” to pre-determine potential non-compliance
- Includes security: only authorized users can view/enter data

Registration

- Responsible Officials will be able to register their facility
 - Authorization for electronic signature required
 - Can certify and submit SMRs
- Other users (engineers, labs, administrative staff) can self register
 - Approval by responsible official required before access is granted
 - Cannot certify and submit SMRs

The Report Builder - Login

California Integrated Water Quality System (CIWQS) - Microsoft Internet Explorer

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California Home Friday, October 1, 2004

Welcome to *California*

Home
Board Business
Laws/Regulations
News/Media Info
Regional Boards
Water Education
Water Quality
Water Rights

Water Boards
State Water Resources Control Board
1001 I Street Sacramento, CA 95814
P.O. Box 100 Sacramento, CA 95812
(916) 341-5250
fax (916) 341-5252
[Contact Us](#)

CIWQS
☐ My CA ☐ This Site

California Integrated Water Quality System (CIWQS)

User Name:

Password:

Forgot your password? [Click here](#)
New User? [Register here](#)
To report any problems with this system, please contact the system administrator

This system is for official use only. Unauthorized use is prohibited.

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Internet

All CIWQS users (including dischargers) will have their own user ID and password

The Report Builder - Facility Selection

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Water Boards **CIWQS**

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Module:

Select the facility for which you are submitting this Self Monitoring Report

Facility	Facility Physical Address	Responsible Agency Name	Case Worker Name
So and so Treatment Plant	999 Industrial Park Way, Somewhere, CA 00000-0000	Discharger ABC	John Doe

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If you're authorized to access SMRs for multiple facilities, they will be listed here

The Report Builder – Order Selection

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Module: Submit/Review a Self Monitoring Report (SMR) ▼

Select the order that details the requirements for this Self Monitoring Report

☒ Show Effective ☐ Show All

Order Number	Program	Effective Dates	
R2-WIP-123	NPDES	02/01/2004 - 01/31/2009	View all Requirements for this Order
R1-QPD-083	NPDES	02/01/2004 - 01/31/2009	View all Requirements for this Order
R4-RSM-492	NPDES	02/01/2004 - 01/31/2009	View all Requirements for this Order

Shows the SMR limits/requirements loaded in CIWQS

All permits, enforcement actions, and order that require SMR submissions will be listed (default is currently effective)

The Report Builder – Report Selection

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Module:

Submit/Review a Self Monitoring Report (SMR)

Select Report

To review or submit a report, select it from the list below. To change the list of reports, check the status types and/or enter start and end dates.

Show reports that meet these criteria

Status:

☒ Submitted - report was already submitted to water board

☒ In-Progress - report has been edited but not submitted

☒ Past Due - report deadline has passed and report has not been submitted

☒ Future - report due date is in the future

Show Report Due Between: and

Refresh List

Show Calendar Year

Due Date	Report Name	Reporting Period	Status	Date Submitted	Archived Reports	Submission Withdrawal
02/01/2004	Monthly Report for January 2004	1/1/2004 - 1/31/2004	Submitted	2/15/2004	Download Report	Withdraw Report
03/01/2004	Monthly Report for February 2004	2/1/2004 - 2/29/2004	Submitted	3/15/2004	Download Report	Withdraw Report
04/01/2004	Monthly Report for March 2004	3/1/2004 - 3/31/2004	In-Progress			

The Report Builder – Report Selection

Show reports that meet these criteria

Status:

☒ Submitted - report was already submitted to water board

☒ In-Progress - report has been edited but not submitted

☒ Past Due - report deadline has passed and report has not been submitted

☒ Future - report due date is in the future

Show Report Due Between: and

Refresh List

Show Calendar Year

The Report Builder – Report Selection

Select the report to complete

Status:

- ☒ Submitted - report was already submitted to water board
- ☒ In-Progress - report has been edited but not submitted
- ☒ Past Due - report deadline has passed and report has not been submitted
- ☒ Future - report due date is in the future

Show Report Due Between and

Submitted reports can be downloaded in read-only format

<u>Due Date</u>	<u>Report Name</u>	<u>Reporting Period</u>	<u>Status</u>	<u>Date Submitted</u>	<u>Archive Reports</u>	<u>Submission Withdrawal</u>
02/01/2004	Monthly Report for January 2004	1/1/2004 - 1/31/2004	Submitted	2/15/2004	Download Report	Withdraw Report
03/01/2004	Monthly Report for February 2004	2/1/2004 - 2/29/2004	Submitted	3/15/2004	Download Report	Withdraw Report
04/01/2004	Monthly Report for March 2004	3/1/2004 - 3/31/2004	In-Progress			

Reports can only be withdrawn by authorized Water Board staff – This cancels the submission

Report Builder - Tabs



- View Requirements
 - Report of requirements to be reported on in this SMR
- No Discharge
 - Report locations without discharge during reporting period
- Narrative
 - Report compliance for narrative requirements
- Pre-Calculated, EDF, Raw Data, Data Summary
 - Report compliance for limit/monitoring requirements
- File Attachments
 - Attach supporting information to submission
- Error Check
 - Check for potential errors and non-compliance in submission
- Cover Letter
 - Prepare submission cover letter, certify/sign, and submit

Report Builder – No Discharge

For each discharge point with no discharge during this period, click the checkbox.

No Discharge?	Discharge Point Name	Discharge Point Description	Comments
<input type="checkbox"/>	Discharge 001	Location representative of effluent from discharge 001.	<input type="text"/>
<input type="checkbox"/>	Discharge 002	Location representative of influent to the plant.	<input type="text"/>
<input type="checkbox"/>	Discharge 003	In the receiving water at a point 300 feet downstream from discharge 001.	<input type="text"/>

All discharge points defined for this facility are listed. Check the box next to the ones that had no discharge during the reporting period.

Report Builder – Narrative

Answer each of the questions below for each monitoring location. Please provide a comment to explain your answer.

<input type="button" value="Save"/> Monitoring Location: <input type="text" value="MON001"/>		
Requirement	In compliance?	Comments
Conduct Weekly Inspections.	<input type="text" value=""/>	<input type="text" value=""/>
Annual Outfall Inspection.	<input type="text" value=""/>	<input type="text" value=""/>
Submit BMP Plan by 10/30/2005.	<input type="text" value=""/>	<input type="text" value=""/>

Narrative requirements for this reporting period are listed. Report each one as "in compliance," "out of compliance," or "N/A." Comments are available to explain "out of compliance" and "N/A" situations.

Two Types of Numeric Requirements

- In most cases, CIWQS can run calculations and determine compliance based on sample data.
- In some cases, the limit is not a fixed number (e.g., dependant on pH, temperature, or an external factor) and the limit must be reported, as well as the result.
- In some cases, it is not feasible for CIWQS to compute the “summary” value based on raw data.

“Pre-Calculated” must be used for the later two.

Report Builder – Pre-Calculated

Enter calculated values for each of the line items listed under each monitoring location.

Save Monitoring Location: MON001 ▼

Parameter	Bound	Limit	Units	Result	Units	Comments	Requirement Text
Ammonia, Total	<=		mg/l		mg/l		

If the limit is fixed, it will be displayed here. Otherwise, enter the applicable limit for this period and the selected monitoring location. The "requirement text" will show the complete text of the requirement.

Enter the result and, if necessary, any comments.

Report Builder – Raw Data

View Requirements No Discharge Narrative Pre-Calculated EDF Raw Data Data Summary File Attachments

Error Check Cover Letter Water Board Notes

Enter measured sample values for each of the line items listed under each monitoring location.

Select a sampling event date/time: 2/1/2004 at 08:00:00 or Create New

Monitoring Location: M1

Parameter	Minimum Sampling Frequency	Sample Type	Sample Medium	Result	Units	Analytical Method	Method Detection Limit (Optional)	Non-Detect?	Minimum Level (Optional)	Sample Analysis Date (Optional)	Sample Analysis Time (Optional)	
Copper	Daily	Grab	Soil		mg/L	35465		<input type="checkbox"/>				delete duplicate
Lead	Daily		Fish Tissue		mg/L	35465		<input type="checkbox"/>				delete duplicate
Zinc	Daily	Grab	Water		mg/L	35465		<input type="checkbox"/>				delete duplicate

Indicate a sampling event (date and time)

Choose the monitoring location

A list of all parameters that may be reported (based on the Order) are automatically listed

The Electronic Deliverable Format

- Developed by Arsenault Legg, inc.
 - <http://www.arsenaultlegg.com/>
- Originally for the Corps of Engineers
- Used by SWRCB for GeoTracker (UST)
- ASCII-based format, compressed with ZIP
- Free tools are available from Arsenault Legg to import from certain other formats and validate data
- Requires the use of pre-defined “code” values
- Some LIMS include EDF export capability (check with your vendor)

Report Builder – EDF

- Sample data can be uploaded in EDF.
- Multiple EDF files may be uploaded for each SMR submission.
- If you want, you can authorize your lab to upload EDF files on your behalf. *You will still be able to review the data before certification and submission.*
- Data can also be entered via web “Raw Data” screen

Submitting Sample Data to eSMR

- Export from an EDF-compliant LIMS
- Use eSMR Raw Data Page (web)
- Use COELT Data Entry (PC)
- Map Existing Data to COELT format

Report Builder – Sample Data Summary

http://carmel.tetratetch-ffx.com - California Integrated Water Quality System (CIWQS) - Microsoft Internet Explorer

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Module:

This page contains a summary of all the sample data that you have submitted both manually and/or through file upload(s).

Monitoring Location	Parameter	Minimum Sampling Frequency	Sample Type	Sample Medium	Result	Units	Analytical Method	Method Detection Limit	Non-Detect?	Minimum Level	Sample Date				
M3	COPPER, DISSOLVED	Daily	Grab	Soil	.0025	mg/l	35465		-		02/02/2004				
M3	COPPER, DISSOLVED	Daily	Grab	Soil	.0025	mg/l	35465		-		02/02/2004				
M3	COPPER, DISSOLVED	Daily	Grab	Soil	.0025	mg/l	35465		-		02/02/2004				
M3	COPPER, DISSOLVED	Daily	Grab	Soil	.0025	mg/l	35465		-		02/02/2004				
M3	COPPER, DISSOLVED	Daily	Grab	Soil	.0025	mg/l	35465		-		02/02/2004				
M3	COPPER, DISSOLVED	Daily	Grab	Soil	.0025	mg/l	35465		-		02/02/2004				P1040.ZIP
M3	COPPER, DISSOLVED	Daily	Grab	Soil	.0025	mg/l	35465		-		02/02/2004				P1040.ZIP
M3	COPPER, DISSOLVED	Daily	Grab	Soil	.0025	mg/l	35465		-		02/02/2004				P1040.ZIP
M3	COPPER, DISSOLVED	Daily	Grab	Soil	.0025	mg/l	35465		-		02/02/2004				P1040.ZIP
M3	COPPER, DISSOLVED	Daily	Grab	Soil	.0025	mg/l	35465		-		02/02/2004				P1040.ZIP
M3	COPPER, DISSOLVED	Daily	Grab	Soil	.0025	mg/l	35465		-		02/02/2004				P1040.ZIP
M3	COPPER, DISSOLVED	Daily	Grab	Soil	.0025	mg/l	35465		-		02/02/2004				P1040.ZIP
M3	COPPER, DISSOLVED	Daily	Grab	Soil	.0025	mg/l	35465		-		02/02/2004				P1040.ZIP
M3	COPPER, DISSOLVED	Daily	Grab	Soil	.0025	mg/l	35465		-		02/02/2004				P1040.ZIP
M3	COPPER, DISSOLVED	Daily	Grab	Soil	.0025	mg/l	35465		-		02/02/2004				P1040.ZIP
M3	COPPER, DISSOLVED	Daily	Grab	Soil	.0025	mg/l	35465		-		02/02/2004				P1040.ZIP
M3	COPPER, DISSOLVED	Daily	Grab	Soil	.0025	mg/l	35465		-		02/02/2004				P1040.ZIP

Displays a monitoring log "raw" data

Displays all samples across all monitoring locations – includes both “raw” data (web screen) and EDF

Report Builder – File Attachments

Note: the upload process may take a few minutes depending on the speed of your internet connection and the size of the file. Do not attempt to click the "Refresh" or "Submit" buttons during the upload process.

File	
<input type="text"/>	<input type="button" value="Browse..."/> <input type="button" value="Upload File"/>


File Name	Date/Time Uploaded	
SupplementalEvidence.doc	3/01/2004 - 14:24:56	delete
AdditionalSampleData.csv	3/23/2004 - 08:56:30	delete

Supporting electronic documents (e.g., word processing, spreadsheets, diagrams and pictures) can be attached

Report Builder – Error Check

Disclaimer Text: This error check locates common submission errors. Although the results of this error check, including your comments will be made available to your local and state Water Board, no violations will be cited until the Water Board has reviewed your submission.

Below are the results of your last error check for this report. If you have made changes to the report since your last error check, you will need to run the error check before submitting your report to the Water Boards.

Save	Check Report For Errors				
Type	Monitoring Location	Parameter	Requirement	Results	Comment on action(s) taken or planned to remedy this instance of non-compliance.
Numeric	M3	COPPER, DISSOLVED	copper dissolved <=0.002 mg/l	0.042	

Locates missing required data, potential errors, and non-compliance

No data is made available to the Water Board until certification

CIWQS does not automatically generate enforcement actions
Water Board review is required

Report Builder – Cover Letter

Please describe your submission, including all violated requirements.

You may type this text below or upload a word processing document (using [template](#)) by clicking the Browse button.

Save

Certify & Submit

Browse...

The following template may be used to complete your cover letter. Click [here](#) to download.

Once data has been reviewed, authorized users can electronically certify and submit

Report Builder – Certification and Submission

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Report Builder - Certification

All analyses were conducted at a laboratory certified by the State Water Resources Control Board or approved by the executive officer and in accordance with current EPA guideline procedures or as specified in the monitoring program. I certify under penalty of law that all data submitted, including attachments, were prepared under my direction in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine or imprisonment, for knowing violations. I certify that I am < full name > and am authorized to submit this report on behalf of < facility name >. I understand that I am submitting a < report name > and I understand that data submitted in this report can be used by authorized agencies for water quality management related analyses and enforcement actions, if required. Entry of my name and title below indicate my certification of this report and my understanding of the above conditions.

Certifier Information	
Name:	<input type="text"/>
Title:	<input type="text"/>
Executed On:	<input type="text"/>
Executed At:	<input type="text"/>
<input type="button" value="Certify and Submit"/>	

Done Internet

Only authorized users can certify

Report Builder – Certification and Submission

- Before a report is certified and submitted, the data is not available to Water Board staff
- Pre-submitted data is flagged and system security prevents access to non-submitted data, except to the discharger's authorized users
- Once certified and submitted, the data is made available to authorized Water Board staff
- Compliance checks (the same ones used in the error check) will flag compliance issues for Water Board review and further processing